



Claims:

1. A lamp apparatus comprising:

a vertically elongated candle-shaped lamp structure including a battery powered source of light; and

a horizontally elongated base configured to support said lamp structure, said base defining a horizontally elongated battery compartment configured to receive batteries in a row in end-to-end horizontal positions, said base including battery contacts at opposite ends of said battery compartment.

2. An apparatus as defined in claim 1 wherein said source of light is a light emitting diode.

3. An apparatus as defined in claim 1 wherein said lamp structure includes a translucent, flame-shaped lamp cap covering said source of light.

4. An apparatus as defined in claim 1 wherein said lamp structure includes a candlestick-shaped translucent tube projecting upward from said base.

5. A lamp apparatus comprising:

a vertically elongated candlestick structure having a cylindrical side wall centered on an axis, said side wall having inner and outer wall surfaces and an open lower end, said candlestick structure further having an upper end wall which projects radially inward from said side wall and defines an aperture centered on said axis;

a pair of opposed guide ^ustructures at said inner wall surface, said guide structures being configured to receive a circuit board;

a vertically elongated circuit board received upward through said open lower end of said side wall, said circuit board having upper and lower horizontal end edges, and further having opposite vertical side edges received by said guide structures, said circuit board dividing



whereby light from said source has an uninterrupted path from said source upward through said aperture and downward through said compartments.

7. An apparatus as defined in claim 5 wherein said source of light is a light emitting diode.

8. An apparatus as defined in claim 5 wherein said side wall has a slot configured to receive a switch actuator projecting from said circuit board.

Figure 1 consists of 15 subplots, labeled (a) through (o), each showing the growth of *E. coli* O157:H7 in ground beef over a 14-day period. The y-axis for all plots is log₁₀ CFU/g, ranging from 0 to 12. The x-axis is time in days, from 0 to 14. Subplot (a) is the control, showing a steady increase in bacterial count from approximately 10^{1.5} to 10^{11.5} CFU/g. Subplots (b) through (o) represent different treatments: (b) 100% NaCl, (c) 100% NaOH, (d) 100% H₂O₂, (e) 100% Acetic acid, (f) 100% Citric acid, (g) 100% Lactic acid, (h) 100% Malic acid, (i) 100% Tartaric acid, (j) 100% Succinic acid, (k) 100% Fumaric acid, (l) 100% Gluconic acid, (m) 100% Glucuronic acid, (n) 100% Gallic acid, and (o) 100% Salicylic acid. In all treated samples, the bacterial growth is significantly inhibited compared to the control. For example, in (b) 100% NaCl, the count reaches only about 10^{3.5} CFU/g by day 14. In (d) 100% H₂O₂, the count remains below 10¹ CFU/g throughout the 14 days. The growth inhibition is most pronounced in (n) 100% Gallic acid and (o) 100% Salicylic acid, where the bacterial count remains near the detection limit (10⁰ CFU/g) for the entire duration.